FIG. 1

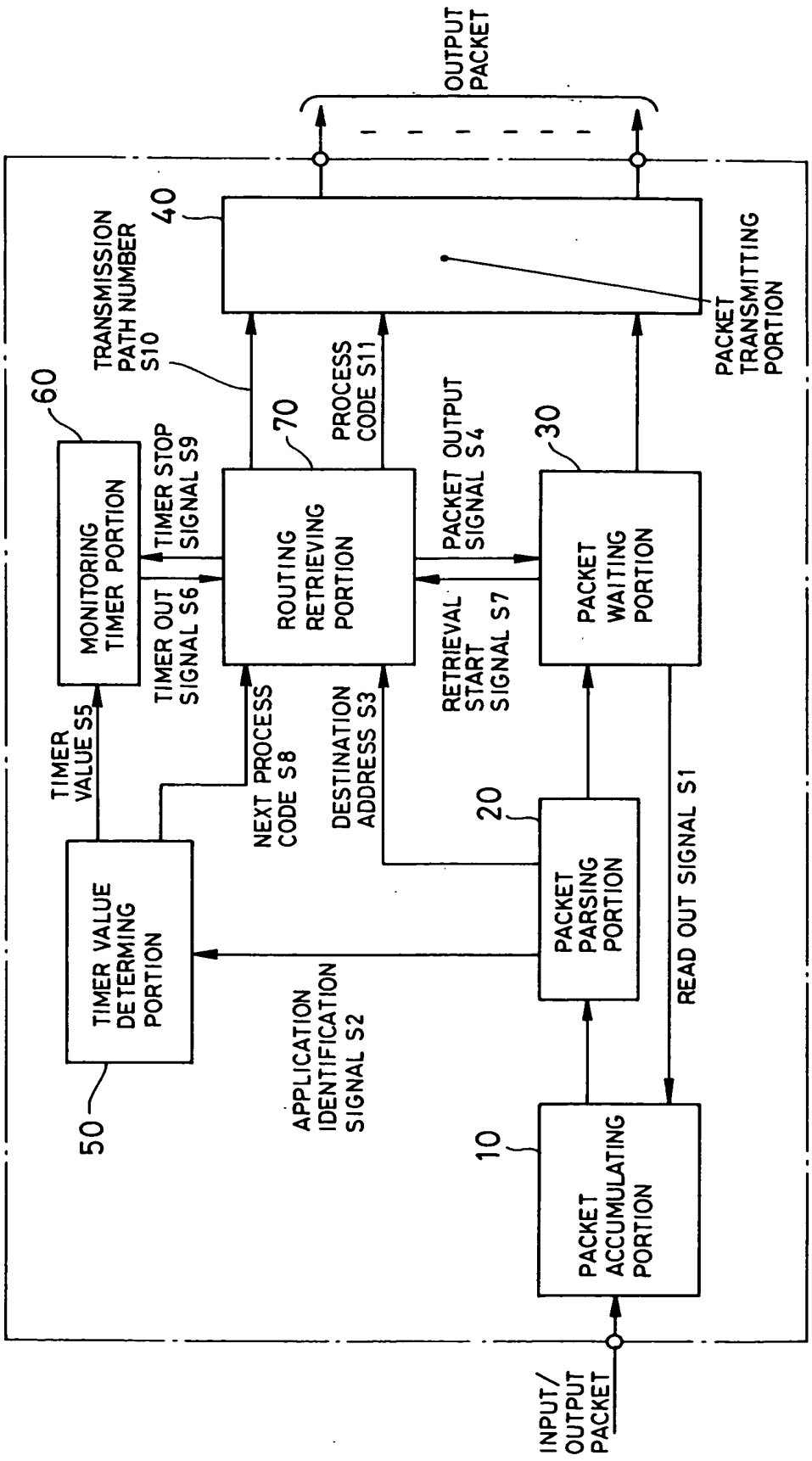
OUTPUT PACKET
40
PACKET TRANSMITTING PORTION
TRANSMISSION PATH NUMBER S10
PROCESS CODE S11
60
MONITORING TIMER PORTION
TIMER STOP SIGNAL S9
TIMER OUT SIGNAL S6
70
ROUTING RETRIEVING PORTION
PACKET OUTPUT SIGNAL S4
RETRIEVAL START SIGNAL S7
30
PACKET WAITING PORTION
TIMER VALUE S5
NEXT PROCESS CODE S8
DESTINATION ADDRESS S3
20
PACKET PARSING PORTION
READ OUT SIGNAL S1
50
TIMER VALUE DETERMING PORTION
APPLICATION IDENTIFICATION SIGNAL S2
10
PACKET ACCUMULATING PORTION
INPUT/ OUTPUT PACKET

FIG. 2

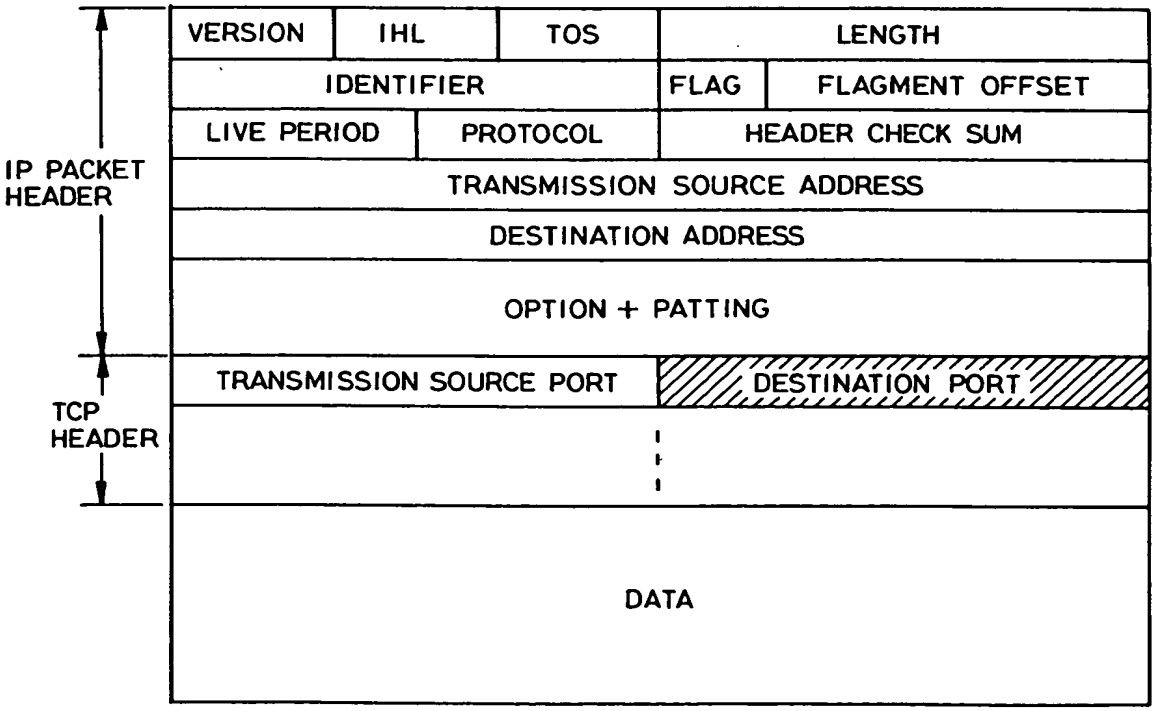
IP PACKET HEADER
TCP HEADER
VERSION
IHL
TOS
LENGTH
IDENTIFIER
FLAG
FLAGMENT OFFSET
LIVE PERIOD
PROTOCOL
HEADER CHECK SUM
TRANSMISSION SOURCE ADDRESS
DESTINATION ADDRESS
OPTION + PATTING
TRANSMISSION SOURCE PORT
DESTINATION PORT
DATA

FIG. 3

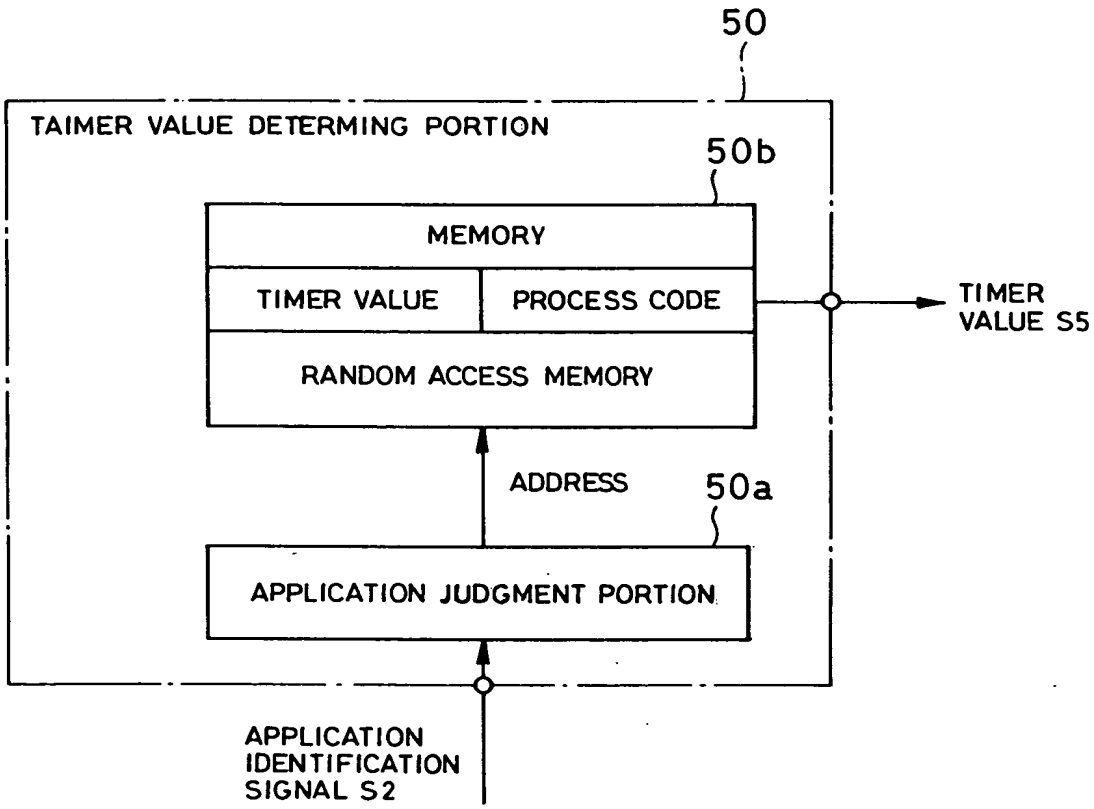
50
TAIMER VALUE DETERMING PORTION
50b
MEMORY
TIMER VALUE
PROCESS CODE
TIMER VALUE S5
RANDOM ACCESS MEMORY
ADDRESS
50a
APPLICATION JUDGMENT PORTION
APPLICATION IDENTIFICATION SIGNAL S2

FIG. 4

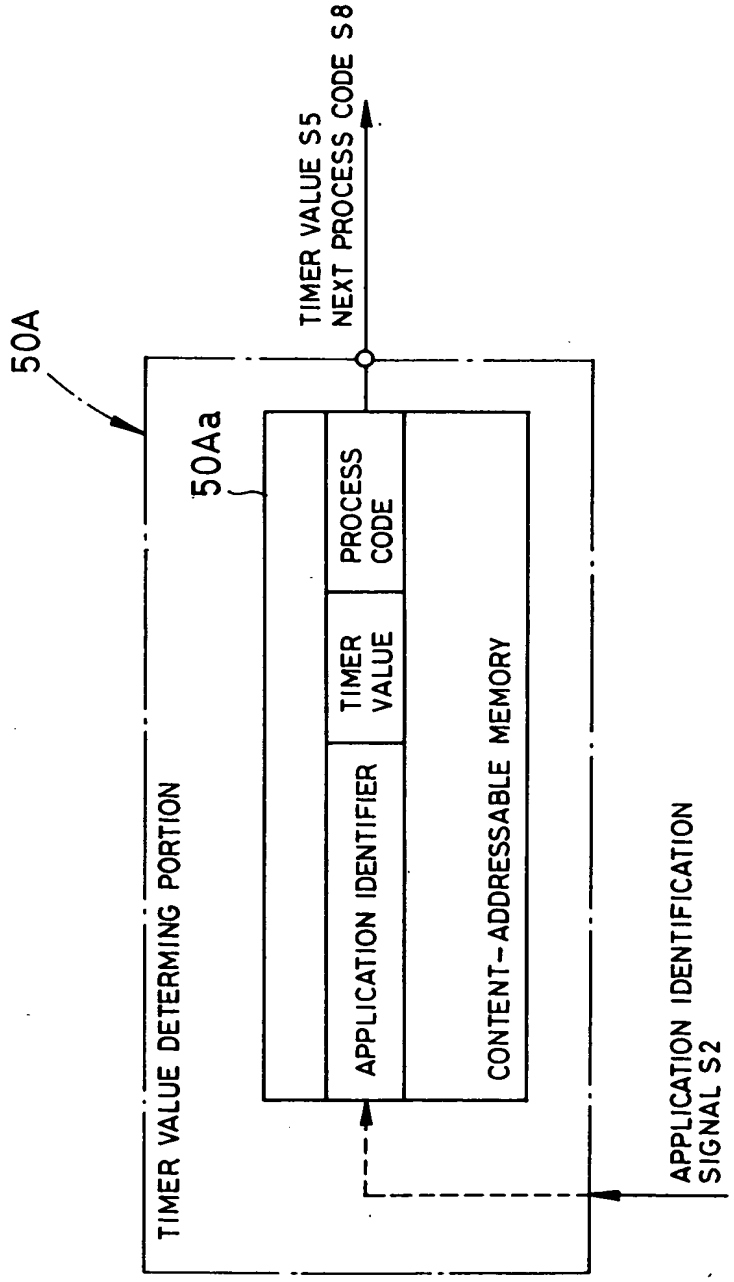
50A
50Aa
TIMER VALUE DETERMING PORTION
APPLICATION IDENTIFIER
TIMER VALUE
PROCESS CODE
CONTENT-ADDRESSABLE MEMORY
TIMER VALUE S5
NEXT PROCESS CODE S8
APPLICATION IDENTIFICATION SIGNAL S2

FIG.5

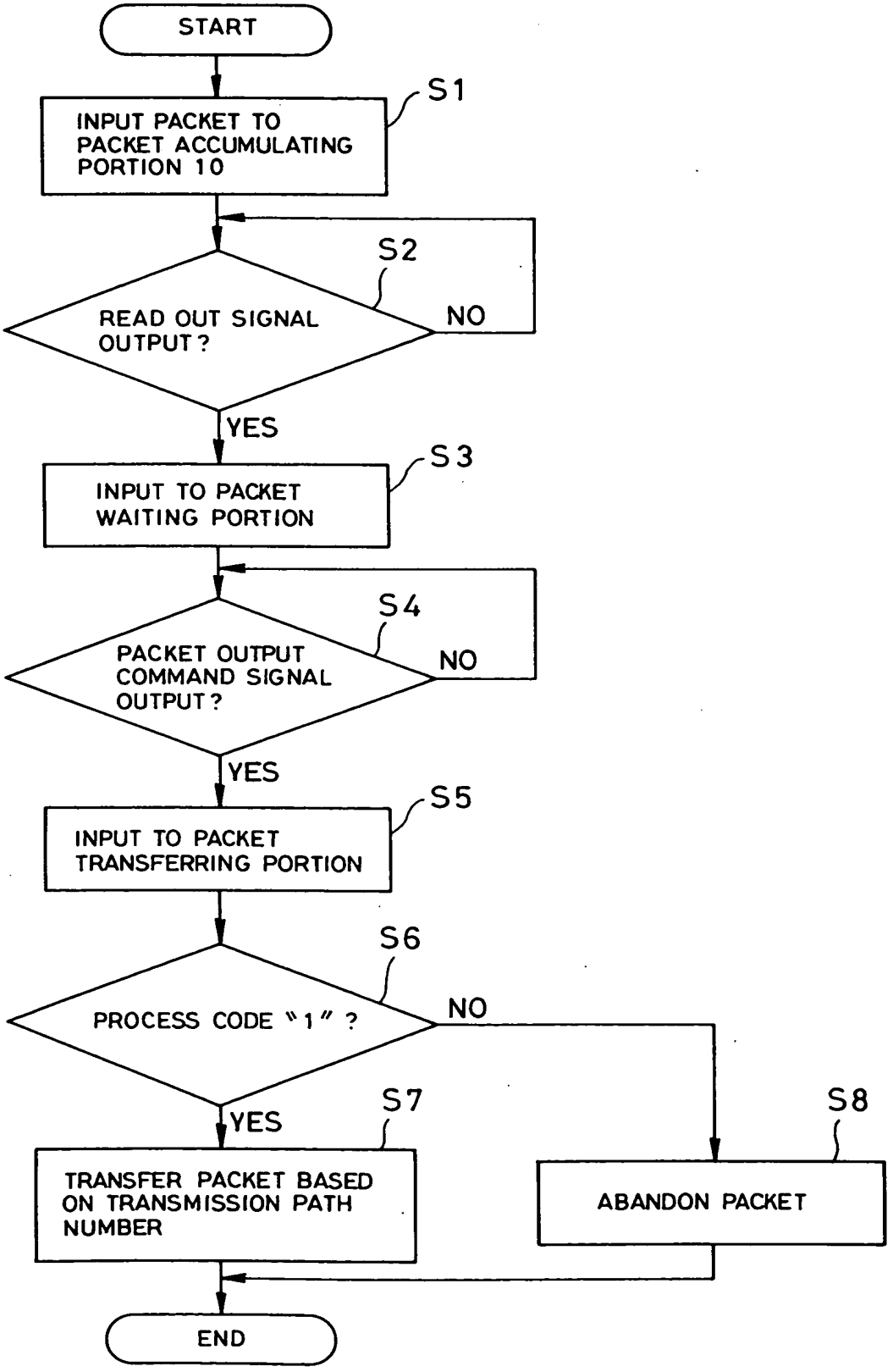
START
S1
INPUT PACKET TO PACKET ACCUMULATING PORTION 10
S2
READ OUT SIGNAL OUTPUT?
NO
YES
S3
INPUT TO PACKET WAITING PORTION
S4
PACKET OUTPUT COMMAND SIGNAL OUTPUT?
NO
YES
S5
INPUT TO PACKET TRANSFERRING PORTION
S6
PROCESS CODE "1"?
NO
YES
S7
TRANSFER PACKET BASED ON TRANSMISSION PATH NUMBER
S8
ABANDON PACKET
END

FIG.6A

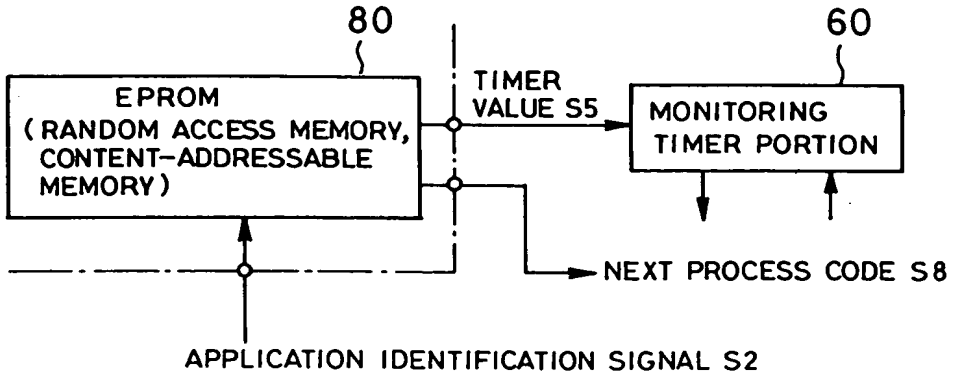

FIG.6B

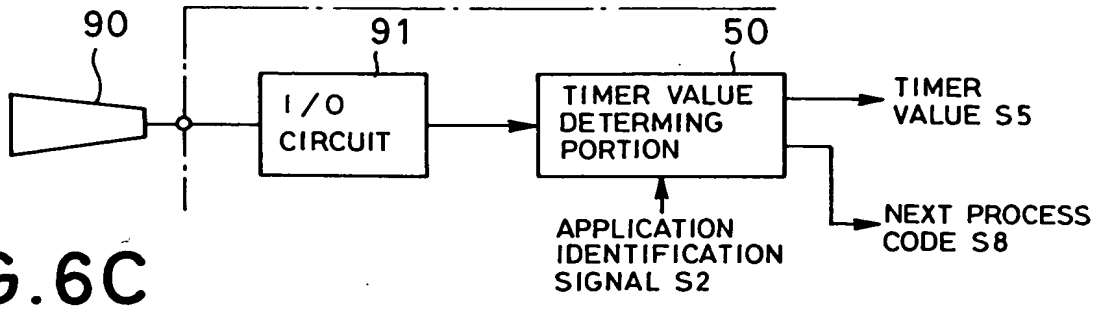

FIG.6C

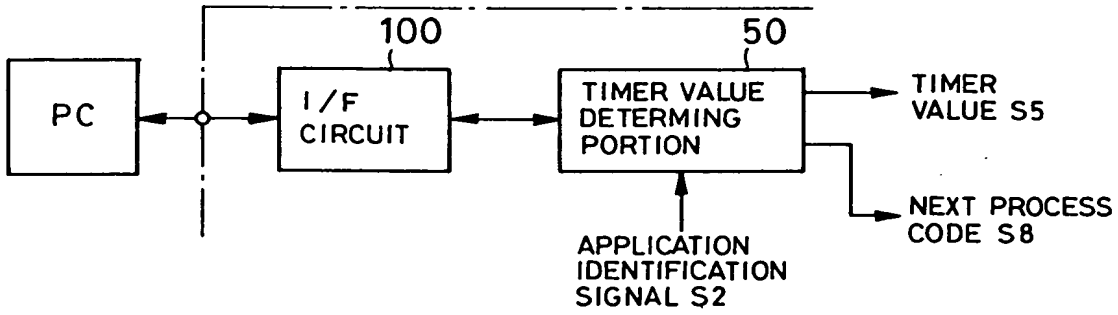
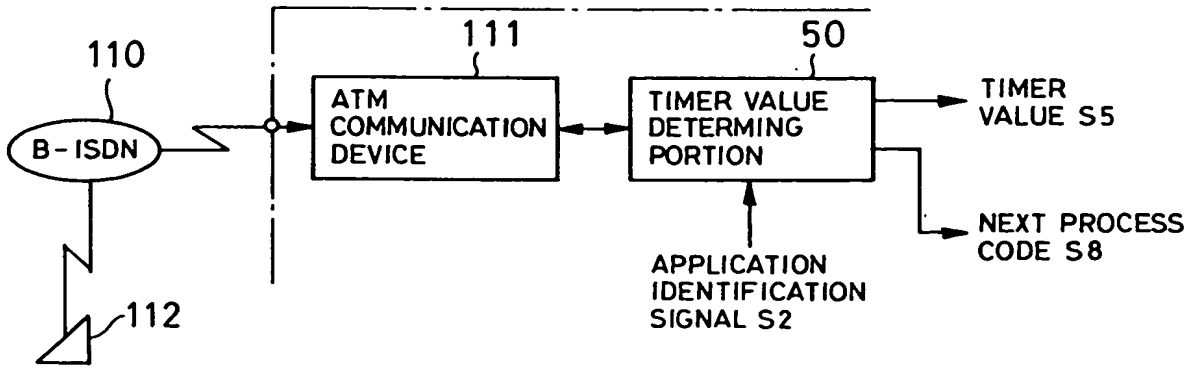
FIG.6D